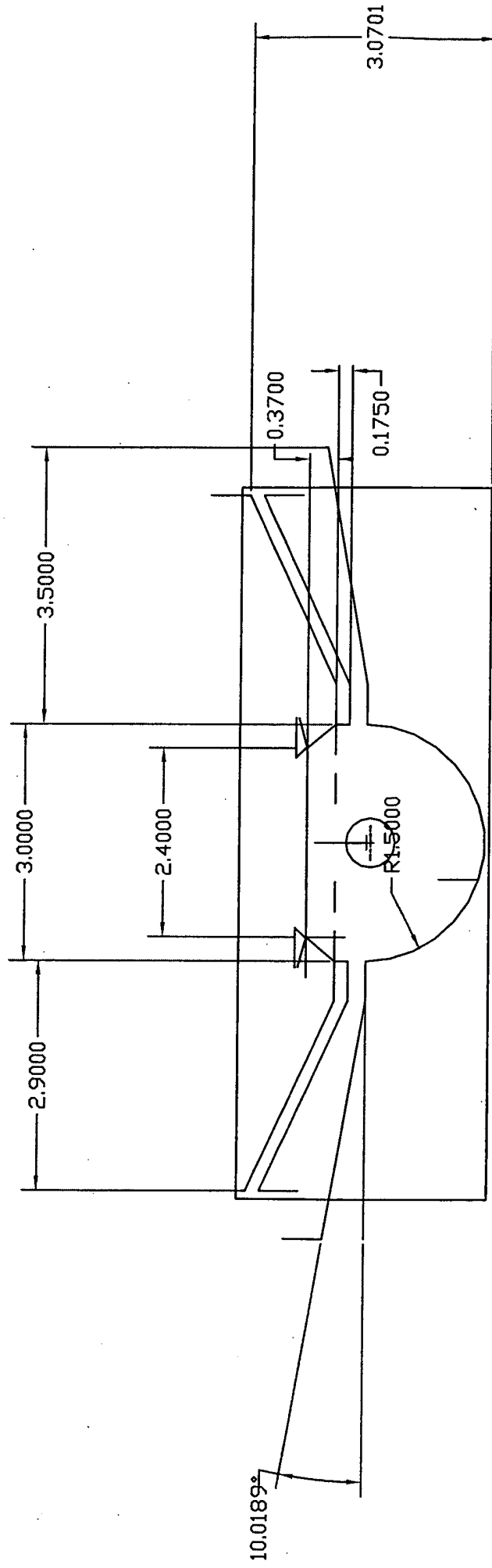


V08C



V08c3 20-Tran cav-mask-sep MD=24 MH=37 - (Photometry) - Page 1 of 4

Sat Mar 11 09:33:29 2000

IESNA:LM-63-1995

Photopia 1.5.0.15 PHOTOMETRIC REPORT

PROJECT: V08c3 20-Tran cav-mask-sep MD=24 MH=37

OPTIONS:

Spawning 1 rays for each reaction.

Writing 1 rays to a DXF file.

Random number generator seed: 8.

Tracing 50 reflections.

Stop tracing ray at 2.0% of initial magnitude.

Tracing 499982 initial lamp rays.

Photometric test distance of 20.00 feet.

LUMENS EXITING SYSTEM:

Lumens(%)	Reflection
10(0.8%)	0
42(3.2%)	1
40(3.0%)	2
42(3.1%)	3
37(2.8%)	4
37(2.8%)	5
37(2.8%)	6
35(2.7%)	7
34(2.6%)	8
32(2.4%)	9
30(2.2%)	10
28(2.1%)	11
26(1.9%)	12
24(1.8%)	13
22(1.7%)	14
20(1.5%)	15
18(1.4%)	16
17(1.3%)	17
16(1.2%)	18
14(1.1%)	19
13(1.0%)	20
12(0.9%)	21
11(0.9%)	22
10(0.8%)	23
9(0.7%)	24
9(0.7%)	25
8(0.6%)	26
7(0.6%)	27
7(0.5%)	28
6(0.5%)	29
6(0.4%)	30
5(0.4%)	31
5(0.4%)	32
4(0.4%)	33
4(0.3%)	34
4(0.3%)	35
3(0.3%)	36
3(0.3%)	37
3(0.2%)	38
2(0.2%)	39
2(0.2%)	40
2(0.2%)	41
2(0.2%)	42
2(0.2%)	43
1(0.1%)	44
1(0.1%)	45
1(0.1%)	46
1(0.1%)	47
1(0.1%)	48
1(0.1%)	49
1(0.1%)	50
730(54.1%)	Total

LUMENS ABSORBED BY SYSTEM:

Lumens(%)	Layer Name
0(0.0%)	LAMP-F14T5A
223(16.6%)	LAMP-F14T51
32(2.4%)	LAMP-F14T52
64(4.8%)	REFL-MASK
126(9.4%)	REFL-CAVITY
54(4.1%)	REFL-SHOLDER1
49(3.7%)	REFL-SHOLDER2
13(1.0%)	REFL-ENDS
4(0.3%)	REFL-SHOLDER3
9(0.7%)	REFL-FAN SUPPORT
0(0.1%)	REFL-MASK_SIDS
12(0.9%)	TRAN-CAV_MASK_SEP
593(44.0%)	Total
Lumens(%)	Material
256(19.0%)	PHOSGLAS
214(15.9%)	PERFE980
108(8.1%)	ALMIRO02
12(0.9%)	TYVEK20
592(43.9%)	Total

V08c3 20-Tran cav-mask-sep MD=24 MH=37 - (Photometry) - Page 2 of 4

Number of Lamps: 1 Lumens per Lamp: 1350
 Ballast Factor: 1.00 Ballast-Lamp Photometric Factor: 1.00
 Luminaire Width: 0.8333 Length: 1.7388 Height: 0.2654
 Photometry Type: C Units: feet

Candela Distribution:

	0.00	22.50	45.00	67.50	90.00
0.00	0.000	0.000	0.000	0.000	0.000
5.00	0.000	0.000	0.000	0.000	0.000
10.00	0.000	0.000	0.000	0.000	0.000
15.00	0.000	0.000	0.000	0.000	0.000
20.00	0.000	0.000	0.000	0.000	0.000
25.00	0.000	0.000	0.000	0.000	0.000
30.00	0.000	0.000	0.000	0.000	0.000
35.00	0.000	0.000	0.000	0.000	0.000
40.00	0.000	0.000	0.000	0.009	0.000
45.00	0.000	0.000	0.000	0.084	0.097
50.00	0.000	0.000	0.026	0.192	0.064
55.00	0.000	0.007	0.262	0.602	0.210
60.00	0.000	0.053	0.403	0.690	0.311
65.00	0.000	0.154	1.06	1.07	0.272
70.00	0.000	0.519	1.89	1.61	0.394
75.00	0.000	1.08	2.76	1.99	0.844
80.00	0.034	2.76	3.88	2.56	0.870
85.00	0.911	5.40	5.68	3.48	0.976
90.00	3.34	21.5	36.2	46.0	49.2
95.00	9.89	84.2	141	159	167
100.00	15.2	102	248	299	312
105.00	16.7	73.3	261	364	407
110.00	19.1	50.7	207	373	422
115.00	23.8	43.3	132	282	357
120.00	28.1	41.2	84.1	190	236
125.00	29.8	42.3	68.2	111	149
130.00	32.8	41.0	63.0	82.0	92.2
135.00	36.9	41.8	61.1	75.1	82.9
140.00	40.0	43.0	57.3	65.0	69.1
145.00	41.1	44.3	53.0	59.4	65.3
150.00	42.4	45.7	52.2	57.6	61.3
155.00	47.3	44.2	47.9	55.5	57.3
160.00	47.7	45.9	48.0	50.7	51.9
165.00	50.8	47.8	49.2	49.9	50.8
170.00	49.7	51.7	47.8	47.8	50.3
175.00	43.2	52.1	50.9	49.5	53.4
180.00	51.6	51.6	51.6	51.6	51.6

Zonal Lumens		
Cone	Between	Lumens
0.0	0.0- 2.5	0.00
5.0	2.5- 7.5	0.00
10.0	7.5- 12.5	0.00
15.0	12.5- 17.5	0.00
20.0	17.5- 22.5	0.00
25.0	22.5- 27.5	0.00
30.0	27.5- 32.5	0.00
35.0	32.5- 37.5	0.00
40.0	37.5- 42.5	0.00
45.0	42.5- 47.5	0.01
50.0	47.5- 52.5	0.03
55.0	52.5- 57.5	0.11
60.0	57.5- 62.5	0.15
65.0	62.5- 67.5	0.30
70.0	67.5- 72.5	0.54
75.0	72.5- 77.5	0.83
80.0	77.5- 82.5	1.30
85.0	82.5- 87.5	2.12
90.0	87.5- 92.5	17.82
95.0	92.5- 97.5	64.60
100.0	97.5-102.5	109.61
105.0	102.5-107.5	120.51
110.0	107.5-112.5	109.67
115.0	112.5-117.5	80.38
120.0	117.5-122.5	53.09
125.0	122.5-127.5	34.94
130.0	127.5-132.5	26.09
135.0	132.5-137.5	23.06
140.0	137.5-142.5	19.37
145.0	142.5-147.5	16.50
150.0	147.5-152.5	14.21
155.0	152.5-157.5	11.58
160.0	157.5-162.5	9.11
165.0	162.5-167.5	7.02
170.0	167.5-172.5	4.70
175.0	172.5-177.5	2.40
180.0	177.5-180.0	0.31

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixt
0- 30	0	0.0	0.0
0- 40	0	0.0	0.0
0- 60	0	0.0	0.0
0- 90	14	1.1	2.0
90-120	521	38.6	71.3
90-130	595	44.1	81.5
90-150	674	49.9	92.3
90-180	716	53.0	98.0
0-180	730	54.1	100.0

Total Luminaire Optical Efficiency = 54.1%

Luminaire Spacing Criterion:

0 deg	90 deg
5.44	5.44

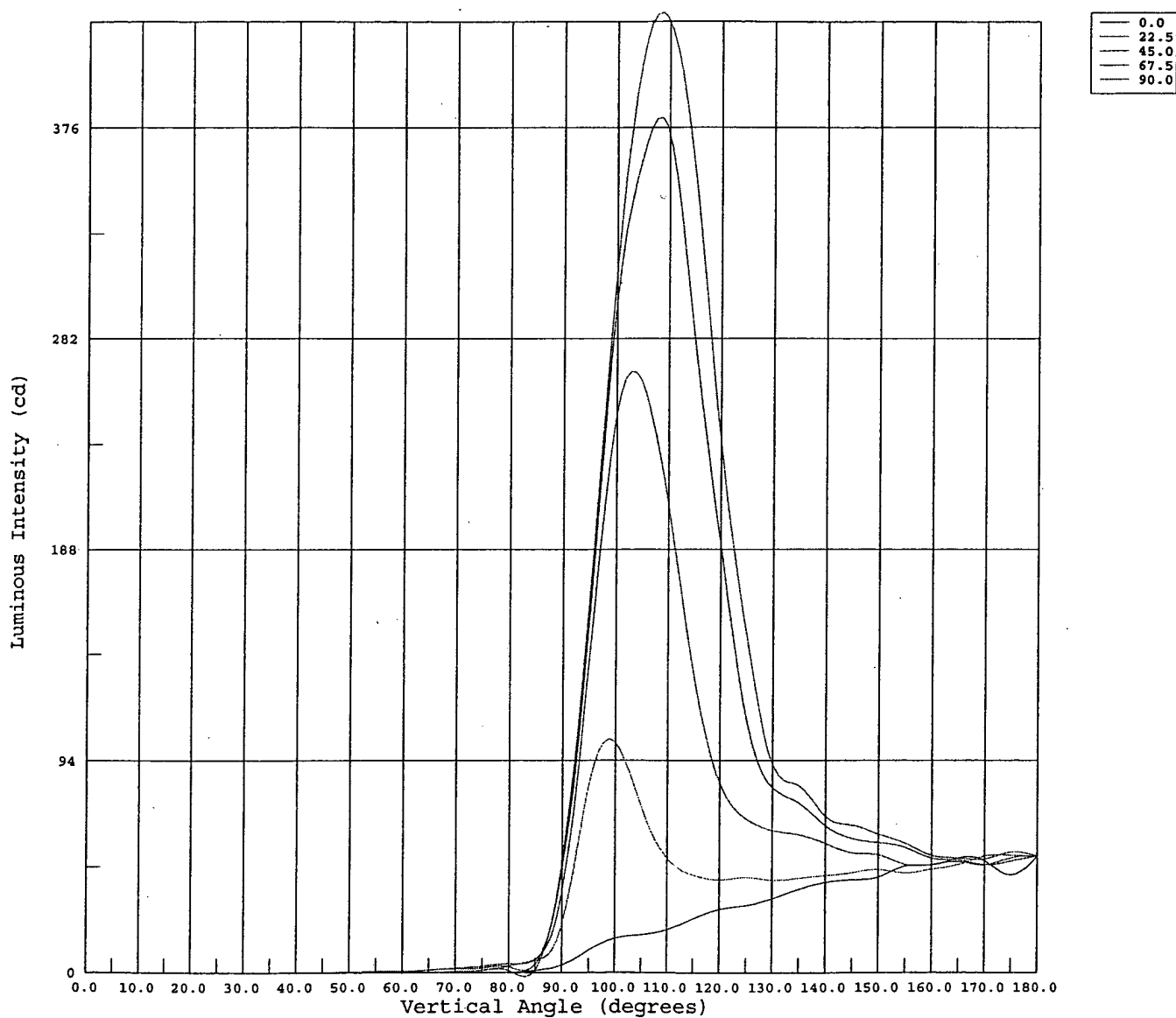
Average Luminaire Brightness (cd/sqmeter):

	0	45	90
0	0.00	0.00	0.00
45	0.00	0.00	0.77
50	0.00	0.22	0.54
55	0.00	2.30	1.87
60	0.00	3.80	2.98
65	0.00	10.84	2.84
70	0.00	21.48	4.56
75	0.00	35.29	11.07
80	0.78	57.43	13.26
85	28.29	100.69	17.93

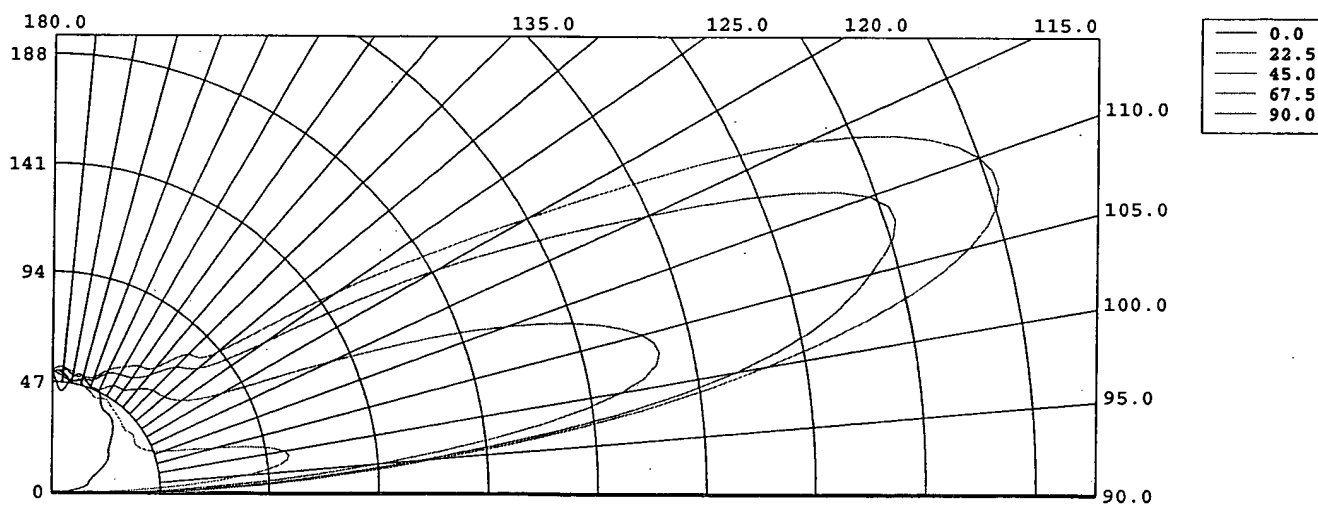
Coefficients of Utilization - Zonal Cavity Method:

pf_c = 0.20

pec	.8	.7	.5	.3	.1	0
pw	.7 .5 .3 .1	.7 .5 .3 .1	.5 .3 .1	.5 .3 .1	.5 .3 .1	0
RCR						
0	51 51 51 51	44 44 44 44	30 30 30	17 17 17	5 5 5	0
1	46 44 42 40	39 38 36 35	26 25 24	15 14 14	5 4 4	0
2	42 38 35 33	36 33 30 28	22 21 19	13 12 11	4 4 3	0
3	38 33 30 27	32 29 26 23	20 18 16	11 10 9	3 3 3	0
4	35 29 25 22	29 25 22 19	17 15 14	10 9 8	3 3 2	0
5	32 26 22 19	27 22 19 16	15 13 11	9 7 7	3 2 2	0
6	29 23 19 16	25 20 16 14	13 11 10	8 6 6	2 2 2	0
7	27 21 17 14	23 18 14 12	12 10 8	7 6 5	2 2 1	0
8	25 18 15 12	21 16 13 10	11 9 7	6 5 4	2 1 1	0
9	23 17 13 10	19 14 11 9	10 8 6	6 4 4	1 1 1	0
10	21 15 11 9	18 13 10 8	9 7 5	5 4 3	1 1 1	0



V08c3 20-Tran cav-mask-sep MD=24 MH=37 - (Candela Distribution Polar Plot)



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